

HEAVY EQUIPMENT MECHANIC

Purpose:

Diagnose, repair, and maintain automotive and self-powered portable equipment.

Functions:

1. Diagnose, repair, and maintain automotive and self-powered portable equipment.
 - * A. Inspect vehicles and equipment to diagnose malfunction or to determine road worthiness.
 - * B. Maintain vehicles and equipment in accordance with maintenance schedules.
 - * C. Clean vehicles and equipment.
 - * D. Diagnose and repair malfunctions in fuel, electrical, ignition, exhaust, brake, and suspension systems.
 - * E. Diagnose and repair vehicle bodies and equipment enclosures, interiors, dashboards, and related equipment.
 - * F. Diagnose and repair electrical and simple electronic malfunctions.
 - * G. Perform emergency repairs away from the shop to return the vehicle or equipment to operation, or to assist in returning the vehicle or equipment to the shop for further repair.
 - * H. Remove and replace major systems and individual components for repair or replacement.
 - * I. Overhaul major systems or components such as engines, transmissions, differentials, etc.
 - * J. Perform skilled maintenance on systems and components such as computerized ignition, fuel injection, and other systems using specialized diagnostic and repair tools and equipment.
 - * K. Operate vehicles and equipment to diagnose malfunction, verify operation, or to move it into or out of the shop area.
 - L. Clean and maintain equipment, tools, and the general shop area.
 - M. Maintain all required records.

Minimum Qualifications:

Education & Experience

- † A. Two year's experience as an equipment Maintenance Specialist (promotional).

--OR--

- † B. A verifiable combination of education and experience equivalent to four years experience in maintaining and repairing vehicles and/or self-powered equipment.

License and Certifications:

- † A. Must possess and maintain a valid Minnesota Class "D" Driver's License or privilege.
- † B. ~~Must be ASE certified as a General Mechanic.~~ Must become certified as an ASE Master Automotive Technician during the probation period and maintain that certification thereafter.
- C. Must be certified as a Minnesota Commercial Motor Vehicle Inspector.
- D. Additional ASE Certification in the Medium/Heavy Truck Series (T Series) is desirable.

Knowledge

- † A. Extensive knowledge of the principles, methods, tools, and equipment used in the repair of vehicles and self-powered equipment, including heavy equipment.
- † B. Knowledge of all applicable safety standards, rules, laws, and procedures.
- † C. Knowledge of all State and Federal motor vehicles laws and regulations.
- † D. Knowledge of vehicle electrical and computer-controlled systems.
- † E. Knowledge of welding methods.

Skill

- † A. Skill in the use of hand and power tools, especially those used in vehicular maintenance and repair.
- † B. Skill in inspecting and diagnosing malfunctioning or poorly performing motor vehicles or self-powered equipment.
- † C. Skill in performing all repair work on vehicles and self-powered portable equipment, including component level repair of engines and transmissions.
- † D. Skill in disassembly and assembly of motor vehicles and portable self-powered equipment.
- † E. Skill in performing routine maintenance on motor vehicles and portable self-powered equipment.
- F. Skill in using computerized diagnostic equipment and precision measuring instruments.

Abilities

- † A. Ability to read and interpret technical manuals and schematic diagrams.
- † B. Ability to acquire increasingly complex mechanical skills.
- † C. Ability to become skilled in the use of computerized analysis and repair equipment.
- † D. Ability to record information in the proper manner in both written work orders and computer databases.
- † E. Ability to establish and maintain good working relationships with coworkers and customers.
- † F. Ability to acquire a Minnesota Class "A" or "B" Driver's License or

- equivalent as required.
- † G. Ability to work outside in inclement weather.
 - † H. Ability to position the body to effect repairs in confined spaces, such as underneath dashboards, under vehicles, etc.
 - † I. Ability to reach, hold, position, maneuver, and operate hand tools and replacement parts.
 - † J. Ability to identify wires, and other parts by color and other identifying information.
 - † K. Ability to use fine hand and finger movements to identify and work on parts not always visible.
 - † L. Ability to lift, carry, position, and hold parts weighing up to 50 pounds alone and up to 100 pounds with assistance during repairs. With mechanical assistance, that could exceed 500 pounds.

* Essential functions of the classification.

† Minimum requirements necessary on the first day of employment.

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